#### D. Remarks

The claims are 1, 3, 8-41 and 43-47, with claims 1, 23 and 41 being independent. Claims 2, 4-7 and 42 have been cancelled. Claims 3, 16-20, 22 and 37-40 have been withdrawn from consideration as being directed to non-elected species. Claim 1 has been amended to include the features of cancelled claim 2, to specify that at least one of the cyclic groups A and B has a substituent, in accordance with the specification, and to improve its form. Claims 8-10, 12-15, 36 have been amended to reflect the cancellation of claim 2, the changes in claim 1 and to improve their form. Claims 23 and 41 have been rewritten in independent form and amended to resolve section 112, second paragraph, issues. Claims 35, 43 and 44 have been amended to resolve section 112, second paragraph, issues. Also, Applicants have amended the specification to correct several informalities. The change to the group name on page 17 is supported by, inter alia, Ex. Comp. No. 273. No new matter has been added. Reconsideration of the claims is expressly requested.

The Examiner required Applicants to affirm their previously-made oral election. Applicants hereby affirm this election. Since all non-elected claims depend from generic claims that are presently under consideration, all non-claims are entitled to be considered once the elected species are deemed patentable.

The Examiner indicated in the Office Action that none of the certified copies of the priority documents have been submitted. Applicants have since filed such documents on November 26, 2003 and respectfully request that the Examiner acknowledge their receipt.

Also, Applicants filed a Third Information Disclosure Statement, based on the International Preliminary Examiner Report (IPER) in the parent application, on August 26, 2003. In that regard, for the Examiner's convenience, Applicants enclose herewith an English language translation of the IPER, which was has now become available.

Consideration of the documents cited in the August 26, 2003 Information Disclosure

Statement is respectfully requested.

The specification is objected to by the Examiner, because of several alleged informalities. Specifically, the Examiner alleged that the scope of a "1-(3,4,5,6-tetrafluoromethyl)phenyl group" recited, for example, at page 16, lines 25-26, a "3,4,5,6,7,8-hexafluoro group" recited, for example, at page 17, line 1, and a "4-fluorooxyphenyl group" recited, for example, at page 17, lines 14-15, is not clear.

With respect to the 1-(3,4,5,6-tetrafluoromethyl)phenyl group, this groups is represented by the following structure and is believed to be proper:

wherein IsoQ is an isoquinolyl group (see e.g., Ex. Comp. No. 466).

With respect to the 3,4,5,6,7,8-hexafluoro group, this group is represented by the following structure and is believed to be proper:

With respect to the 4-fluorooxyphenyl group, this group should be a 4-fluoromethyloxyphenyl group, which is represented by the following structure:

Accordingly, Applicants have amended the specification and claim 35 to correct this typographical error, and respectfully request withdrawal of the objection to the specification.

Claims 23-35 and 41-47 stand rejected under 35 U.S.C. § 112, second paragraph, as being allegedly indefinite.

With respect to claim 23, Applicants have rewritten this claim in independent form and changed the phrase "non-adjacent" to --non-neighboring--.

With respect to claims 32 and 35, the above discussion of the objection to the specification and the amendment to claim 35 are believed to fully address this issue.

With respect to claim 41, Applicants have rewritten this claim in independent form.

With respect to claims 43 and 44, Applicants have amended these claims to provide a full description of the intended partial structures.

Accordingly, in view of the above amendments and remarks, Applicants respectfully request withdrawal of the indefiniteness rejection.

Claims 1, 2, 7-15, 21, 36, 41, 42 and 44-47 stand rejected under 35 U.S.C. § 102(e) as being allegedly anticipated by U.S. Patent Application Publication No. 2001/0019782 A1 (Igarashi). Claims 1, 2, 8-13, 15, 21, 36, 41, 42 and 44-47 stand rejected under 35 U.S.C. § 102(e) as being allegedly anticipated by U.S. Patent Application Publication No. 2003/0072964 A1 (Kwong). Claims 1, 2, 7-15, 21, 23-36 and 41-47 stand rejected under 35 U.S.C. § 103(a) as being obvious from Igarashi or Kwong. The grounds of rejection are respectfully traversed.

Prior to addressing the merits of rejection, Applicants would like to briefly review some of the features and advantages of the presently claimed invention. The present invention is, in part, directed to a metal coordination compound represented by formula (3), having different bidentate ligands L and L'. In particular, ligand L has an isoquinolyl group B and at least one of the cyclic groups A and B has a specific substituent. Some of the compounds encompassed by the presently claimed invention include Example Compounds No. 147, 162, 173, 184, 195, 206, 217, 239, 261, 276, 281-296, 306, 310, 329-344, 356, 358, 360, 364, 374, 385, 395, 417, 424, 435, 446, 456, 467, 470, 471, 489, 500, 511, 522, 533, 544, 555, 566, 577, 588, 599, 622 and 636.

Igarashi discloses a metal coordination compound of formula (24), for example, on page 3, which is capable of having substituents (R<sup>11</sup>)m<sup>1</sup> and (R<sup>12</sup>)m<sup>2</sup> for its cyclic groups. However, Applicants respectfully submit that the disclosure in Igarashi is not sufficient to anticipate the present claims or render them obvious.

The M.P.E.P. states:

[w]hen the compound is not specifically named, but instead it is necessary to select portions or teachings within a reference and combine them, e.g., select various substituents from a list of alternatives given for placement at specific sites on a generic chemical formula to arrive at a specific composition, anticipation can only be shown if the classes of substituents are sufficiently limited or well defined. M.P.E.P. § 2131.02.

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As a matter of law, in order for a reference to anticipate a claim, its disclosure must "clearly and unequivocally' direct[] those skilled in the art" to make the selection Applicants have made. In re Arkley, 172 U.S.P.Q. (BNA) 524, 526 (C.C.P.A. 1972). There is no anticipation, for example, if a reference presents dozens of choices without highlighting the claimed substituent and disclosing the claimed ratio. See In re Kollman, 201 U.S.P.Q. (BNA) 193 (C.C.P.A. 1979).

Igarashi provides a list of possible substituents R<sup>11</sup> and R<sup>12</sup> on pages 20-21, which spans more than one column. Hundreds of possible substituents, which result from different cited permutations based on the disclosure in Igarashi, are outside of the scope of the present claims. Clearly, by simply reciting a large laundry list of possible substituents Igarashi cannot anticipate the present invention, which requires that at least one specific substituent be present. See In re Wiggins, 179 U.S.P.Q. (BNA) 421, 425 (C.C.P.A. 1973). Furthermore, even though a halogen atom and a cyano group are mentioned in a preferred list of substituents on page 21, the Examiner will note that there is yet an even more preferred list of substituents, which does not include a single group as presently claimed,

<sup>1/</sup>There can be no anticipation where the reference is so broad that the likelihood of arriving at the claimed invention would be the same as discovering the combination of a save by an inspection of its dials. See Ex Parte Garvey, 41 U.S.P.Q. (BNA) 583 (P.O.B.A. 1939).

and a skilled artisan, without the benefit of hindsight, would not readily narrow the choices to a less inclusive list when the most preferred and even shorter list is available.

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In fact, Applicants respectfully submit that Igarashi teaches away from having substituents R<sup>11</sup> and R<sup>12</sup>. None of the compounds specifically identified in Igarashi, which have two different bidentate ligands, have substituents R<sup>11</sup> and R<sup>12</sup>.

To select a compound commensurate with the present invention, a person skilled in the art would have to:

- (a) chose to have two different bidentate ligands;
- (b) choose to have at least one of substituents R<sup>11</sup> and R<sup>12</sup>;
- (c) choose R<sup>11</sup> and R<sup>12</sup> to be one of the presently claimed substituents.

  Neither of these choices can be considered in a vacuum, i.e., there must be a combined motivation to make each of above selections.

Applicants respectfully submit that in view of the available possibilities, Igarashi does not "clearly and unequivocally' direct[] those skilled in the art" to make the selection Applicants have made. In re Arkley, 172 U.S.P.Q. (BNA) at 526. A skilled artisan would not be able to at once envisage the presently claimed compounds based on the vast number of possible substituents (if at all present) and with no guidance to select those presently claimed. Furthermore, a prima facie case of obviousness cannot be made, because at least the requisite motivation to assemble the presently claimed structure is absent in view of, for example, a fact that Igarashi teaches away from the present invention. Therefore, it is clear that the present invention is patentable over Igarashi.

Kwong discloses a metal coordination compound that can have different bidentate ligands. However, Kwong cannot anticipate the presently claimed invention or render it unpatentable for at least the same reasons as Igarashi.

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Specifically, as disclosed in paragraph [0011], the phenyl group and the isoquinolyl group need not be substituted, i.e., R<sup>1</sup> to R<sup>10</sup> can each be a hydrogen atom. Furthermore, there are hundreds of possible substituents disclosed in paragraph [0011] of Kwong, which are outside of the scope of the present claims. Also, according to Kwong, the second ligand need not be a bidentate ligand. Therefore, the choices that need to be made in view of Kwong are as follows:

- (a) chose to have a second bidentate ligands;
- (b) choose the second bidentate ligand to have two cyclic groups;
- (c) chose a bidentate ligand with one cyclic group bonded to the metal through the nitrogen and the second cyclic group bonded to the metal through carbon;
  - (d) choose at least one of substituents R<sup>1</sup> to R<sup>10</sup> that is not hydrogen;
- (e) choose at least one of substituents R<sup>1</sup> to R<sup>10</sup> that is either of the presently claimed substituents by ignoring an overwhelming amount of substituents, which are outside of the scope of the present claims.

As discussed above, neither of these choices can be considered in a vacuum, i.e., there must be a combined motivation to make each of above selections. There are clearly no "blaze marks" in Kwong to made the above choices. In fact, the disclosure of this reference teaches away from them. For instance, in all exemplified compounds with a second bidentate ligands, this second bidentate ligand does not have two cyclic groups with the presently claimed metal linkage.

Applicants respectfully submit that in view of the available possibilities, Kwong does not "clearly and unequivocally' direct[] those skilled in the art" to make the selection Applicants have made. In re Arkley, 172 U.S.P.Q. (BNA) at 526. A skilled artisan would not be able to at once envisage the presently claimed compounds from the vast number of possibilities outlined in Kwong without the benefit of impermissible hindsight based on the present application. Furthermore, a prima facie case of obviousness cannot be made, because at least the necessary motivation to make the above choices is absent. Therefore, it is clear that the present invention is patentable over Kwong.

Accordingly, it is clear that the presently claimed invention is patentable over the cited reference, whether this references are considered separately or in combination. Wherefore, Applicants respectfully request that the outstanding rejections be withdrawn and that the present case be passed to issue.

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

ttorney for Applicants

Registration No.

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# PATENT COOPERATION TREATY

#### PCT

# NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

#### From the INTERNATIONAL BUREAU

To:

CANON KABUSHIKI KAISHA 3-30-2, Shimomaruko Ohta-ku, Tokyo 146-8501 Japan



CFE03320WO

Date of mailing (day/month/year)

30 July 2003 (30.07.03)

Applicant's or agent's file reference CFE03320WO

International application No.

PCT/JP01/10487

**IMPORTANT NOTIFICATION** 

International filing date (day/month/year)
30 November 2001 (30.11.01)

**Applicant** 

CANON KABUSHIKI KAISHA et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

EP,CA,CN,KP,RO,US

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CH,CO,CR,CU,CZ,DE,DK,DM,DZ,EE,ES,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,JP,KE,KG,KR,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MK,MN,MW,MX,MZ,NO,NZ,PH,PL,PT,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,ZA,ZW,OA

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, ch min des Col mbettes 1211 Geneva 20, Switzerland

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**Authorized officer** 

Emmanuel BERROD (Fax 338 7010)

Facsimile No. (41-22) 338.70.10

Telephone No. (41-22) 338 8389

Translation

## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  CFE03320WO	FOR FURTHER ACTION		tionofTransmittalofInternational Preliminary n Report (Form PCT/IPEA/416)
International application No.	International filing date (day/n	ionth/year)	Priority date (day/month/year)
PCT/JP01/10487	30 November 2001 (30	0.11.01)	30 November 2000 (30.11.00)
International Patent Classification (IPC) or n C07F 15/00, 19/00, C09K 11/06			
Applicant	CANON KABUSHIKI I	KAISHA	
This international preliminary exami and is transmitted to the applicant action.	nation report has been prepared cording to Article 36.	by this Intern	ational Preliminary Examining Authority
2. This REPORT consists of a total of	5 sheets, includin	g this cover sl	heet.
amended and are the basis for	ed by ANNEXES, i.e., sheets of this report and/or sheets contain Administrative Instructions unde	ning rectificat	on, claims and/or drawings which have been tions made before this Authority (see Rule
These annexes consist of a tot	al of 4 sheets.		
3. This report contains indications relati	ing to the following items:		
I Basis of the report			
II Priority			
III Non-establishment of	f opinion with regard to novelty,	inventive ste	p and industrial applicability
IV Lack of unity of inve	ntion		
V Reasoned statement u	under Article 35(2) with regard t tions supporting such statement	o novelty, inv	rentive step or industrial applicability;
VI Certain documents ci	ted		
VII Certain defects in the	international application		
VIII Certain observations	on the international application		
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Date of submission of the demand	Date of c	completion of	this report
21 June 2002 (21.06.0	2)	06 Nov	ember 2002 (06.11.2002)
Name and mailing address of the IPEA/JP	Authoriz	ed officer	
Facsimile No.	Telephon	ie No.	

International application No.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

PCT/JP01/10487

I. Basis	s of the re	eport
1. With	regard to	o the elements of the international application:*
	the inte	ernational application as originally filed
$\boxtimes$	the des	cription:
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	pages -	, filed with the letter of
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	the langi	suage of a translation furnished for the purposes of international search (under Rule 23.1(b)).  Suage of publication of the international application (under Rule 48.3(b)).  Suage of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/
	regard to minary exac contained filed togo furnished furnished	to any nucleotide and/or amino acid sequence disclosed in the international application, the international amination was carried out on the basis of the sequence listing:  ed in the international application in written form.  ether with the international application in computer readable form.  d subsequently to this Authority in written form.  d subsequently to this Authority in computer readable form.
	internation	tement that the subsequently furnished written sequence listing does not go beyond the disclosure in the onal application as filed has been furnished.
		ement that the information recorded in computer readable form is identical to the written sequence listing has
	the the	ndments have resulted in the cancellation of: e description, pagese e claims, Nose e drawings, sheets/fig
Т	This repor	rt has been established as if (some of) the amendments had not been made, since they have been considered to go e disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
and 70.	.17).	eets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to some solution of the contain and are not annexed to this report since they do not contain amendments (Rule 70.16).
Any rep	lacement	sheet containing such amendments must be referred to under item I and annexed to this report.

#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 01/10487

v.	Reasoned statement under Article 3 citations and explanations supporting	35(2) with regard to noveltying such statement	, inventive step or industrial applica	ability;
1.	Statement			
	Novelty (N)	Claims	1-47	YES
		Claims		NO
	Inventive step (IS)	Claims	1-47	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-47	YES
		Claims		NO

2. Citations and explanations

Document 1: Navarro-Ranninger, C., et al. "A cyclometalated Pd(II) complex containing a cytosine model nucleobase." J. Organomet.

Chem., 1998, Vol. 558, No. 1-2, pages 103-110 (Document 1 is cited in the international search report.)

Of the compounds expressed by the general formula (1), Document 1 discloses those in which the cyclic group substituent is a nitro group, but through the amendment, compounds in which the cyclic group substituent is a nitro group were excluded. Document 1 neither discloses nor suggests other compounds expressed by the general formula (1). Hence, Claims 1-47 are novel and involve an inventive step.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP01/10487

Certain published documents (Rule	70.10)		
Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
See supplemental sheet		,	
on-written disclosures (Rule 70.9)			
Kind of non-written disclosu		vritten disclosure re	Date of written disclosure eferring to non-written disclosure (day/month/year)

Form PCT/IPEA/409 (Box VI) (July 1998)

### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP 01/10487

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: VI.1.

JP 2001-181616 A

03 July 2001

27 December 1999

(Fuji Photo Film Co., Ltd.)

'EX' (Family: none)

JP 2001-181617 A

03 July 2001

27 December 1999

(Fuji Photo Film Co., Ltd.)

'EX' (Family: none)

US 2001/0019782 A1

06 September 2001

27 December 2000

27 December 1999

(Igarashi et al.)

'EX'

US 2002/0055014 A1

09 May 2002

24 August 2001

24 August 2000

(Fuji Photo Film Co., Ltd.)

'EX' [0199]-[0205]

(Family: none)